

Title (en)

WATERMARKING A COMPRESSED INFORMATION SIGNAL

Title (de)

WASSERZEICHEN FÜR EIN KOMPRIMIERTES INFORMATIONSSIGNAL

Title (fr)

FILIGRANAGE DE SIGNAUX D'INFORMATION COMPRESSES

Publication

**EP 1743296 A1 20070117 (EN)**

Application

**EP 05718781 A 20050421**

Priority

- IB 2005051304 W 20050421
- EP 04101751 A 20040427
- EP 05718781 A 20050421

Abstract (en)

[origin: US2007230708A1] Disclosed is a method of embedding both a robust and a fragile watermark in an information signal which is compressed so as to include first signal samples having a first given value and further signal samples having a different value, wherein embedding the robust watermark. The method comprises the steps of: modifying signal samples in accordance with a watermark pattern if the act of modifying results in the modified signal sample assuming the first value; and wherein embedding the fragile watermark comprises the steps of: counting the number of 'ones' remaining (R) in the signal as a result of embedding the robust watermark; counting the number of 'ones' discarded (D) from the signal as a result of embedding the robust watermark; and determining a fragile payload on the basis of said remaining (R) and discarded (D) 'ones'.

IPC 8 full level

**G06T 1/00** (2006.01)

CPC (source: EP KR US)

**G06T 1/0042** (2013.01 - EP US); **G06T 1/005** (2013.01 - EP US); **H04N 5/913** (2013.01 - KR); **G06T 2201/0053** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005104029 A1 20051103**; AT E404949 T1 20080815; CN 1950842 A 20070418; DE 602005008943 D1 20080925; EP 1743296 A1 20070117; EP 1743296 B1 20080813; JP 2007535262 A 20071129; KR 20070000499 A 20070102; TW 200607361 A 20060216; US 2007230708 A1 20071004

DOCDB simple family (application)

**IB 2005051304 W 20050421**; AT 05718781 T 20050421; CN 200580013606 A 20050421; DE 602005008943 T 20050421; EP 05718781 A 20050421; JP 2007510192 A 20050421; KR 20067022071 A 20061024; TW 94112967 A 20050422; US 56835705 A 20050421